Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

SHOUT
SHARE
IT

Reserve
aSB608
.P7745P73
1973

PRELIMINARY DATA

PINE BUTTERFLY FIELD EXPERIMENT
BITTERROOT NATIONAL FOREST
June 1973

USDA - Forest Service, Northern Region
Division of State and Private Forestry

Table 1.--Zectran field experiment, pine butterfly, Bitterroot National Forest, June 1973

Dosage	Replicate	Prespray population density*	4-day postspray population density*	Percent reduction**
0.15 lb./acre	Mill Creek	0.9189	0.0554	92.82
	Bear Creek	.2787	.0001	99.95
	Smith Creek	1.0256	.0081	99.06
	Mean	.7410	.0213	96.58
0.30 lb./acre	Blodgett Cr.	.3602	.0213	99.08
	Big Creek	.7049	.0199	96.64
	Canyon Cr.	.2317	.0149	92.35
	Mean	.4836	.0131	96.77

* Number of larvae per inch of foliated branch.

**Corrected for natural mortality in check blocks. Survival ratio in check blocks was 0.8399.

Table 2.--*Bacillus thuringiensis* field experiment, pine butterfly, Bitterroot National Forest, June 1973

Dosage	Replicate	Prespray population density*	Percent reduction**			12-day postspray population density*
			4-day postspray	8-day postspray	12-day postspray	
½ lb B.t./acre	Fish Creek	0.3019	82.56	77.83	81.33	0.0367
	E. Sweeney	.1505	88.81	58.22	67.69	.0317
	W. Sweeney	.0742	58.31	79.42	38.63	.0247
	Treatment mean	.1758	83.04	77.27	72.96	.0310
1 lb B.t./acre	S. Bear	.2091	85.99	80.52	93.60	.0065
	Blodgett	.2613	78.77	94.77	93.66	.0183
	Sawdust	.2154	78.87	89.27	89.23	.0162
	Treatment mean	.2288	79.36	91.12	92.16	.0137

* Number of larvae per inch of foliated branch.

**Corrected for natural mortality in check blocks. Survival ratios in check blocks were: 0.9256 (4-day)
.7783 (8-day)
.6519 (12-day)

NATIONAL AGRICULTURAL LIBRARY
1023055765